UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

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PLANS Sheeta Klamata
Timber Management
Goosenest Working Circle

Mount Shasta, California March 12, 1952

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STREAMLINED MANAGEMENT PLAN

GOOSENEST WORKING CIRCLE

SHASTA NATIONAL FOREST



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PLANS - Shasta
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STREAMLINED MANAGEMENT PLAN
GOOSE NEST WORKING CIRCLE
SHASTA NATIONAL FOREST

Approved by:

Roberts E. Jones, Forest Supervisor

5-6 , 1952

Submitted By:

C. A. Abell, Dist.Forest Ranger

V. S. Brown, Forester

Chabell

B. H. Payne

Assistant Regional Forester ACTING

January 22, , 1952³

cc Chief 1/23/53

March 12, 1952

STREAMLINED MANAGEMENT PLAN GOOSE NEST WORKING CIRCLE

1. Resource Data

Ownership Within Working C: Total Area	ircle	372,078 Acres
National Forest Public Domain Private		244,491 " 4,853 " 122,734 "
Classes of Land, National 1 Total Area	Forest Area*	244,491 Acres
Productive Forest Land Less than 5% Stocked Non-Commercial Land		175,175 " 40,169 " 29,147 "
Stand on National Forest An Total	709,220 M ft.	175,175 Acres
Virgin Cut-Over	259,220 " 450,000 "	22,618 " 152,557 "
Volumes on National Forest Total	Uncut Areas	259,220 M feet
White Pine Ponderosa Pine Sugar Pine White Fir Douglas Fir Red Fir		225 " 63,899 " 874 " 99,571 " 503 " 94,148 "

*See Table 2 for distribution of land classes by forest types.

The Goose Nest Working Circle lies on the northern part of the Shasta National Forest. It is traversed by U. S. Highway 97 (from Weed to Klamath Falls) and the main line of the Southern Pacific Railroad. Sawmills are located at Dorris (Associated Lumber & Box Co.) about 20 miles north, at Weed (two Long-Bell mills) about 20 miles south, and at Montague (two small mills) about 15 miles west. The working circle is mostly

cut over and a large part of the area is understocked. A great deal of land that is now national forest was acquired after cutting by Long-Bell. This company has some timber left but not much, even though their railroad still extends some distance into the Modoc Forest on the east. The Long-Bell mills at Weed cut about 80 million feet per year so there is no chance of sustaining the operation at its present level from the Goose Nest and adjoining Modoc working circles.

One of the more significant facts about the working circle is that only 10 per cent of the national forest land has stand densities of 50 per cent or over.

Forest types on the area, as well as non-productive and non-commercial land are shown on Map 1.

The location of privately owned land and government land is shown on Map 2. Long-Bell land has been shown differently than other private land because, under existing agreements, it will become national forest after the timber is cut.

Map 3 shows the location of the remaining virgin national forest timber, by type, and also indicates which areas are proposed for cutting in each of the next 15 years.

In Table 1 is shown the area of national forest land, by age-density classes and also similar data for private land. The areas in these classes have been adjusted (January 1952) to take account of the cutting that has taken place since the aerial photos (from which age-density areas were determined) were taken. Attention is called to the large proportion of area, both national forest and private, in poorly stocked condition which is indicated by the large figures in density classes 3, 4 and 5.

2. Transportation Situation

Since most of the area has already been logged, those portions at least are pretty well covered by existing roads and railroad grades. Main road development is still needed in upper Butte Creek, Antelope Creek, and in the area south and west of Ball Mountain Lookout. This will be accomplished by operator construction in conjunction with timber sales and the cutting of intermingled private timber.

Where new main roads are constructed in connection with sales, those that will be on the permanent system should have permanent type culverts and drainage installed at the time the road is built. In order to obtain this, some Forest Service financing may be necessary to supplement operator construction.

Other roads should have temporary culverts and fills removed and stream channels restored to natural contour where this is necessary to minimize erosion and protect stream channels.

It is expected that the Long-Bell railroad to the Modoc will be taken up within five years. This is one of the reasons for budgeting the scattered parcels to the east in year 3 because this material would probably be trucked to the railroad.

3. Silviculture

Cutting will be on a partial cut basis aimed at:

- a. Removal of poor risk trees.
- b. Improvement of composition and growing conditions in the stand.
- c. Promoting the establishment of reproduction by natural and artificial means.

Details of the marking systems to be used are fully explained in the Region 5 Timber Management Handbook.

The general aim of management, from the timber standpoint, would be to produce sawlogs, plus any intermediate cutting products such as poles, pulpwood and some Christmas trees. The rotation for sawlog material will probably be between 150 and 200 years.

The disposal of remaining virgin timber is largely a routine sale administration job with the exception of finding methods to obtain more reproduction and, in the northwestern part of the working circle, adopting a modification of cutting practices to prevent excessive windthrow. Recent partial cuttings in this area have resulted in unacceptable losses from wind; the shortage of reproduction is widespread.

On the large area already cut over (most of it acquired since cutting) there are two widespread conditions that prevent full timber production. Much of the area is seriously understocked; also in the mixed conifer type, much area formerly supporting pine is now growing mostly fir or nothing. We should be making progress in remedying these conditions.

4. Allowable Annual Cut

The net annual growth for the national forest land in the working circle is estimated at 10 MM feet. This figure was arrived at by estimating average annual net growth at 60 board feet per acre, using as a guide the results of partial cutting studies at Black's Mountain Experimental Forest. The growth measured at Black's Mountain was 76 feet per acre, net, on a reserve stand of 4,600 board feet after partial cutting. The site was between III and IV. From our field checking and general observation, plus the low densities shown by the aerial photo study, we estimate the average reserve stand on most of the Goose Nest Working Circle to be well below 4,600 feet and the average site closer to IV than to III. Consideration of the generally lower densities, lower reserve volume, and lower site quality in comparison with the area where growth was measured at Black's Mountain, led us to adopt 60 board feet per acre per year as a reasonable estimate of net growth on the working circle.

Since most of the area is cut over, there is no material advantage to establishing a cut in excess of growth for the short period remaining in the first cutting cycle. The allowable annual cut is, therefore, established at 7 MM. To permit some latitude in the operation this cut may be exceeded by not more than 25% in any year, provided the total cut for any 5 year period does not exceed 35 MM feet.

In the event of an exchange of government timber for land and timber within the working circle, the volume of selected timber equivalent to volume acquired by exchange will not be charged against the allowable cut.

The general plan of operation would limit the allowable annual cut, after completion of the first cutting cycle, to something less than annual net growth. Present figures on growth are largely estimates based on experience in other localities. For the purpose of long term management, the estimates of growth should rest on a firm factual basis of local experience. A plan for obtaining this information through permanent sample plots was approved September 8, 1949, S-PLANS-Shasta-Timber Surveys-Goose Nest Working Circle. No progress has been made to date in accomplishing this important work.

5. Sale Policy

Long-Bell is operating in Butte Creek and should finish there within about 5 years. Sales should be made in the Butte Creek area first to facilitate road development on permanent locations, to best serve intermingled ownerships, and to provide a better road system at less cost because unnecessary road construction would be eliminated. If the national forest timber is available at the time the private timber is logged, one road system can be developed for the combined ownerships in a logical and economical fashion.

Development of the road system by the current operator will be advantageous to the government. The annual cut to remove the remaining virgin timber of approximately 7 million feet is judged to be in line with the logging capacity in the area.

Sealed bids will be required in acord with Regional policy (See NF Manual, R-5 Supplement, June 1, 1950).

6. Cutting Budget

The remaining virgin timber has been budgeted over a 15-year period as shown on Map 3. The planned details of the first five year's cutting are shown in Table 3.

TABLE 1

NATIONAL FOREST AND PRIVATE LAND AREAS, BY AGE-DENSITY CLASSES GOOSE NEST WORKING CIRCLE

Age-Density Class		National Forest Area	Private Land Area 1/
	2/	Acres	Acres
Old Growth	2/ 01 02 03 04	408 779 96 730	117 43 73
Old Growth - Young Growth	OA7 OA3 OA5 OAI	3,070 5,500 8,140 5,630	2,196 5,702 8,581 2,036
Young Growth - Old Growth	A07 A03 A05	1,040 5,200 22,430 21,320	1,838 7,349 12,606 8,131
Young Growth	Y1 Y2 Y3 Y4 Y5	790 1,598 12,637 55,080 23,040	166 490 3,842 12,207 5,452
Lodgepole - Old Growth Young Growth	LY	7,647 40	3,607 103
Total Productive		175,175	74,539
Less than 5% Stocked	5	40,169	9,977
Not Timber Cropland	N− N−	14,830 11,763 2,554	29,221 11,920 1,930
Total Non-Productive		69,316	53,048
TOTAL		244,491	127,587

^{1/} Includes public domain.

^{2/} Numerals indicate density class as follows: 1 = 80% or more of ground space covered by trees; 2 = 50-80%; 3 = 20-50%; 4 = 5-20%; 5 = less than 5%.

AREA OF NATIONAL FOREST LAND BY TYPES AND CONDITION CLASSES

GOOSE NEST WORKING CIRCLE

	:	CONDITION CLASS										
	:		: :Practically:Non-FOR-:Lodg									
Forest Type	in Type	: Virgin	Cutover :	Unstocked	est Land:	Overstory						
	: Acres	: Acres	Acres	Acres	: Acres :	Acres						
Ponderosa Pine	119,333	-	70,669	26,237	22,427	-						
Mixed Conifer	67,999	4,900	52,207	8,292	2,600	-						
White & Shasta Fir	57,159	17,718	21,994	5,640	4,120	7,687						
All Types	: 244,491	22,618	144,870	40,169	29,147	7,687						

Manage ment Plan 3/12/52

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Horking Circle

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National Forest

Five-year Cutting Budget and Sale Program C.Y. 1955-1956-1957-1958-1959 Inclusive.

(Show all sales under contract and sales proposed for advertising by year.)

Proposed Sale & in Date of Sale Year : MBM : Acres Road : Miles Cost Road : Miles Cost Road : Miles Cost Road : Miles Cost Number : Miles Cost Num	: Total Name of Sale or : Volume		ed Cut for 1.956-1957-19		Access Road Construct	tion (on Sy ach Year	ystem & M-4 Roads)
46 N. R 3 W Se 20 9,000 1956 9.000 2236 475 L 6.3 50,000 43 N, R 2 W 5.34 7.000 1957 7.000 500 4467 3.5 21,000 42 N, R 2 W 5.12 43 N, R 1 W 5.32 44 N, R 1 W 5.4 42 N, R 2 W 5.12,20 42 N, R 2 W 5.14,20 42 N, R 2 W 5.14,20 42 N, R 2 W 5.14,20 43 N, R 2 W 5.14,20 44 N, R 2 W 5.16,20 7. 400 1959 7. 400 1842 42 N, R 2 W 5.16,20 6. 700 1960 6 200 1600		:	: :				porator
1,22,123,11,223,29,20, 1959 42N, R2W 5.12 43N, R1W 5.32 43N, R1W 5.32 43N, R1W 5.32 43N, R1W 5.32 44N R1E 5.1,11,12 G. 400 1958 G. 400 2942 42N R1W 5.6 42N R1W 5.2 42N R1W 5.2,12 42N R1W 5.19,20 7. 400 1959 7. 400 1842 42N R1W 5.19,20 6. 700 1960 6700 1600	Advertisement : MBM		: :	Acres :	Road : Niles Cost	: Road : Number	Miles Cost
42 N, R2W 5.12 43 N, R1E 5.1,11,12 C. 400 1958 C. 400 2942 44N R3E 5.21,12,123 42N R1W 5.6 42N R1W 5.6 42N R1W 5.75,20 7. 400 1959 7. 400 1842: 42N, R2W 5.15,20 7. 400 1960 6700 1600	1,22,23,21,28,29,311:	:				: 4751	6-3 50,000
43 M) R I W 5.32 47 N R I E 5. 1, 11, 12 G. 400 1958 6. 400 2942 44 N R I W 5. 6 42 N R I W 5. 7. 400 1959 7. 400 1842: 425 1 4.2 21,000 42 N R I W 5. 18, 20 700 1960 6700 1600	43 N, R 2W 5.343: 7.000	: 1957	7, 000	sov		4467	3.5 21,000
42 N, R2W S, 10,14, 24. 6. 700 1960 6700 1600	43 N, Rrw 5.12 43 N, RIW 5.32 43 N RIE 5.1,11,12 G.400 44N R3 E 5. 21,22,28, 31,32,33 42 N RIW 5.6	: 1958	6.400	2942			
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	42N RIN 5. 18,20 7. 400	, 1959	7.400	1842		: 425 (4.2 25,000
Approved Revised:	42 N. R2W 5,10,14,20 6. 700	1960	6700	16 or		:	
Approved Revised:	:	:					
	Approved					Revised:	

254-R5 Revised 12-27-54 Supersedes Revision 12-22-53

Ву:

1956

Five-year Cutting Budget and Sale Program C.Y. 1955-1956-1957-1958-1959 Inclusive. (Show all sales under contract and sales proposed for advertising by year.)

Name of Sale or	: Total : Volume	: Estimate	ed Cut for 956-1957-1	Each C.Y. 958-1959	: Access Road Constructi	on (on System &	M-4 Roads
Proposed Sale &	: in	:	:	:	: By Forest Service	By Operator	
- Date of Advertisement	: Sale : MBM	: Year	* MBM	: Acres	Road Miles Cost	Road : Miles	Cost
Pameroy Creek #1 #2		:55-56	7,000	1900	:	4467(b) 1	\$6,000
Duck Lake #3	7,000	:57	7,000	1300	:	4467 (1) 1.2 (2) 1.0	\$7,000 \$6,000
Hart Camp #445	:7,000	:58	7,000	2500	:	= F/ S	
Surprise Lake	:7,000	:59	7,000	1000	:	4251 4.2	\$25,000
	:						
	:	:			:		
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Approved

254-R5 Revised 12-27-54 Supersedes Revision 12-22-53 Revised:

(Date)

By:

GOOSENEST WORKING CIRCLE

SHASTA NATIONAL FOREST

FIVE-YEAR CUTTING BUDGET AND SALE PROGRAM (C. Y. 54 to 58 INCLUSIVE)

(Show Sale and Planned Cut By Calendar Year)

	Total: Volume: in:		mated Cu Year	t by	or Ma;	tor Constr jor Recons FRD System	struc-
	Sale :	Year :	MBM :		Road Number	: :Miles:	Cost
L.B.L.Co. (pro) : T43 N 09 26/.5ec 26,3233	¥. :	54	3000	900	-	-	
T42NR 2W, Sec. 4, 6, 8	7,000	5-5	4,000	1000	_	2	
LB.LCO. (pro) T43N RIW. Sec 32 T42N RZW. Sec 12							
THANKIW. SEC. 6	7,000	56	7,000	1300		3	
LOLCO (Pro) THYNRIW. Sec 2,10,12 THYNRIW. Sec 18,20.	7,000	57	7,000	2500	1	5	
LB.L.Co (pro) T42NR2W.Sec14,24						3.5	
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254-R5-12/22/53

APPENDIX

Forest	Kla	amath-Goosenest
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Compart.	ment.	

RECORD OF UNREGULATED TIMBER AND FOREST PRODUCTS CUT

	;	Misc	ella	aneous	Con	nvertible Produc	ts	- Volu	umes	M Feet E				tible	Products
	:	Pulpwood	:		:	: Fuelwood	:	Ties	:	Misc.:				:	
						Posts: Cordwood								8	Miscellaneous
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RO-12-R5 (2/1/52)

Forest	Klamath	5	Goosenest	
Wor king	Circle		ALL	
Compart	nent			

RECORD OF CUT - SAWTIMBER (Separate sheet for each unit.)

	:		Volume	s in M fe	et board meas			:
YEARX	: Ponderosa : and/or : Jeffrey : Pine	Douglas:	White Fir and/or Red Fir	Sugar Pine	: Lodgepole:	Incense Cedar	TOTALS	: ACRES
Ball Mountain	261	180	3,726	76	9	31,520	: 4,283	: 144
Goosenest (Shur	(iv) -	_	_	-	-		: : -	:
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TOTAL	261	180	3,726	76	9	31,520	: 4,283	: 144
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RECORD OF CUT - SAWTIMBER (Separate sheet for each unit.)

Forest	Sh	as to
Wor king	Circle	Goosenest
Compartn	nent	

	:		Volume	s in M fee	et board meas				:
YEAR	: Ponderosa : and/or : Jeffrey : Pine	Douglas:			: Lodgepole: : Pine:	Incense Cedar	: Miscel- : laneous : or : Other	TOTALS	ACRES
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Ballyn

TM, RO, February 1, 1952

CUMULATIVE RECORD OF CUT - SAWTIMBER

Forest Shasta
Working Circle Goose Mest

:	Vol	ume MBM :	Δ	cres	Volum	MRN	:	Acres	· Volum	o MRM	:	Acres
YEAR	Cur-	: Cumu- :	cur-	: Cumu-	Cur-	: Cumu-	: Cur-	: Cumu- : lative	: Cur-	: Cumu-	: Cur-	: Cumu-
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Total Annual Allowable Cut: 7,000/9

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Compartn	nent		1	-

RECORD OF UNREGULATED TIMBER AND FOREST PRODUCTS CUT

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RECORD OF CUT - SAWTIMBER
(Separate sheet for each unit.)

Forest SHASTA
Working Circle GOOSE NEST
Compartment

	: Volumes in M feet board measure	
YEAR	Ponderosa: and/or: Douglas: White Fir: Sugar: Lodgepole: Incense: laneous: Jeffrey: Fir: and/or: Pine: Pine: Cedar: or: TOTALS Red Fir: Cther:	ACRES
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CUMULATIVE RECORD OF CUT - SAWTIMBER

Forest SHASTA
Working Circle GOOSENEST

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RECORD OF UNREGULATED TIMBER AND FOREST PRODUCTS CUT

	: Miscella:	neous Con	vertible P	roducts - 1	Volumes		.M.	: Non-convertible Products
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OBSOLETE SHEETS

Phans Timber Management Secrevision dated 1-15-54

TABLE 3

5 YEAR CUTTING BUDGET

Numb				TIMBER					ROAL	S	1	
of			T 1.				Respon	nsib.			Miles	132 -
Мар			Locatio	on	Area	Cut Vol.	F.S.	Oper.	No.	Const.	Better	Mai
D1	/	T. 43n 42n	R. 2W 2W	Sec. 34 4	400 100 500	6.0 1.0 7.0		x	None	1/		
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5	5	42N	2W	10 14 24	600 360 640 1600	0.8 0.8 5.1 6.7		x	51	34		
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